

### **MAGTF Communications**

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## Selected MAGTF Implications

- Expeditionary Headquarters
- Enhanced intelligence systems
  - Persistent surveillance over an extended but densely complex operational environment
  - Advanced ISR sensors linked to users at all echelons
  - Integrated C2 & ISR capabilities down to the squad level
- MAGTF communications infrastructure must be resilient and protected from cyber attack
- Improved fires and maneuver capabilities
  - Coordinated, precise fires from ground, air, and naval surface fire support platforms
  - Must rapidly and precisely engage fleeting targets
- Unmanned aircraft systems (UASs)
  - provide force-multiplying capabilities, fostering transformational advancements in battlespace command and situational awareness
- Develop Aviation C2 systems fuse C2, sensor, weapons data, and information to provide a true COP









## Principle Force Implications

- Fully enable decentralized MAGTF operations
  - Organize and train for disaggregated MAGTF of
  - C2 & ISR to the lowest tactical level
  - Discriminate and responsive fires
- Enhance tactical mobility all domains
  - Protected ground maneuver
  - Significantly lighten the combat load
- Increase effectiveness in the Information Environment
  - Information Operations 7th warfighting function
  - Roles functions and responsibilities institutior support
  - Cultural terrain







# Networking the Future MAGTE

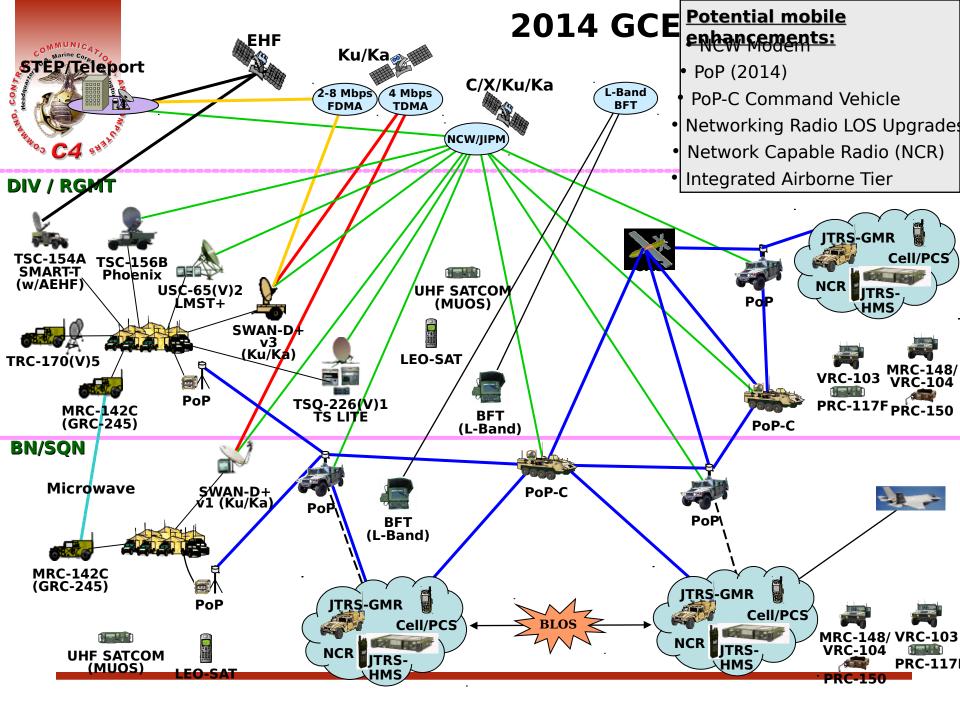
#### Network focused on decision

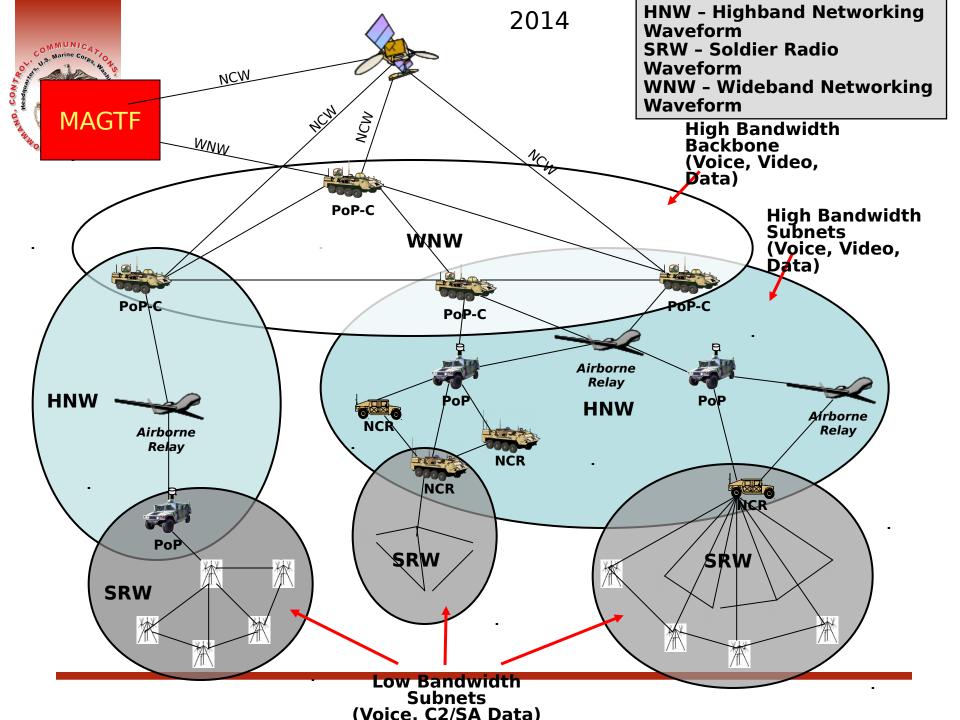
 Integrates essential technologies into a single system focused on the ground warfighter

Migrate to a fully net-enabled, distributed and democratized environment where capabilities and information are available to any node at any time

- Support machine-to-machine communication
- Each node collaborates as customer, provider, or both
- Scalable and upgradeable
- Open architecture, IP based, and using standard protocols









### **Aerial Layer**

- Connecting Marines
  - RF/Voice first, then networking
  - Mobile comms/C2
- Extending the tactical network
  - Networked radios
  - Battlespace video/ISR
- Enabling sensor-to-shooter communications



## **Excerpts from the Marine UAS Plan**

Unmanned aircraft systems (UAS) enable Marines to increase the effectiveness of our air-ground team ... [and] will continue to widen and add depth to our aviation support by capitalizing on current and future technologies. Future UAS will expand to provide support in other Marine Aviation functions beyond aerial reconnaissance.

#### **Concepts**

Battalion level-units will use the smaller Tier I systems as an organic reconnaissance and surveillance capability. The VMU squadrons will employ the larger and more-complex Tier II and III systems via a common Ground Control Station (GCS) to provide task-organized support to various MAGTFs. Greater capability will be resident in the **Tier III system**, and it **will include such support as** targeting, strike, intelligence collection, electronic attack, **data networking**, and communications relay.

#### **Capabilities**

Command and control is currently being augmented through a radio relay capability with our Shadow UAS. The development and addition of systems such as CORPORAL will increase access to command data networks.